

Watershed Tools Directory

A Collection of Watershed Tools

Assessment and Watershed Protection Division
Office of Wetlands, Oceans, and Watersheds
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

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R. P. ALC.
A valuable resource
your copy
Judy

Acknowledgements

Introduction

Registration

DATA COLLECTION/MEASUREMENT/ASSESSMENT TOOLS

- ☐ Advanced Identification
- ☐ Aerial Photography
- ☐ Analytical Methods for the Determination of Pollutants in Waste Water
- ☐ Analytical Procedures and Quality Assurance Plan for the Determination of Xenobiotic Contaminants in Fish
- ☐ Assessment of Uncertainties and variability in Wildlife Toxicity Data
- ☐ ASTM 1993 Annual Book of ASTM Standards Water and Environmental.
- ☐ Barny
- ☐ Bibliography of Methods for Marine and Estuarine Monitoring
- ☐ Construction of Aquatic-Based Webs
- ☐ Culture and Test Methods
- ☐ CWA Section 106 Guidance for Water Quality Monitoring
- ☐ CWA Section 403: Procedural and Monitoring Guidance
- ☐ Ecological Risk Assessment
- ☐ Electric Log
- ☐ EMAPS Ecological Indicators for Aquatic Systems
- ☐ Environmental Indicators
- ☐ Equilibrium Partition Approach for the Development of Sediment Quality Criteria for Non-Ionic Organic Contaminants for the Protection of Benthic Organisms (Technical Basis Document)
- ☐ Evaluation of Dredge Material Proposed for Ocean Disposal Testing Manual
- ☐ Farm Assessment System (FARM*A*SYST)
- ☐ Field Operations and Safety Manual EMAP-Estuarines VA.Province Preliminary Draft
- ☐ Global Positioning System (GPS) Base Station Data
- ☐ Guidance for Assessing Chemical Contaminants Data for use in Fish Advisories Volume. Sampling and Analysis; Volume 2 Risk Assessment and Fish Consumption Limits
- ☐ Guidance for State Water Monitoring and Wasteload Allocation Programs. EPA 440/4-85-031. October 1985
- ☐ Guide to Federal Water Quality Programs and Information.
- ☐ Gulf of Mexico Estuarine Assessment Tools
- ☐ Handbook-Stream Sampling for Waste Load Allocation Applications. EPA 625/6-86/013. September 1986
- ☐ Home Assessment System (HOME*A*SYST)

- ☐ [Hydrogeomorphic Approach to Wetland Functional Assessment \(HGM\)>](#)
- ☐ [Inland Testing Manual for Evaluation of Dredged Material....DCMA-29](#)
- ☐ [Laboratory Methods Manual-Estuaries; EMAP Program](#)
- ☐ [Louisiana Ambient Monitoring Network](#)
- ☐ [Macroinvertebrate Field and Lab Methods for Evaluating the Biological Integrity of Surface Water](#)
- ☐ [Marsh Management](#)
- ☐ [Measuring Progress of Estuary Systems](#)
- ☐ [Methods to Derive Wildlife Criteria](#)
- ☐ [Methods for Aquatic Identification Evaluations, Phase I Toxicity Characterize Procedures, 2nd Edition](#)
- ☐ [Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity](#)
- ☐ [Methods for Aquatic Toxicity Identification Evaluations,Phase III Toxicity Confirmation for Samples Exhibiting Acute and Chronic Toxicity](#)
- ☐ [Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms](#)
- ☐ [Methods for Measuring the Toxicity of Sediment-Associated Contaminants with Estuarine and Marine Amphipods](#)
- ☐ [Methods Measuring the Toxicity of Sediment-Associated Contaminants with Freshwater Invertebrates](#)
- ☐ [Methods for the Determination of Chemical Substances in Marine and Estuarine Environmental Samples](#)
- ☐ [Methods for the Determination of Inorganic Substances in Environmental Samples](#)
- ☐ [Methods for the Determination of Metals in Environmental Samples](#)
- ☐ [Molecular Characterization of Estuarine Microorganisms](#)
- ☐ [Monitoring Guidance for the National Estuary Program](#)
- ☐ [National Shellfish Sanitation Program Manual of Operations Part I Sanitation of Shellfish Growing areas 1990 Revisions](#)
- ☐ [Nutrient Threshold Assessments Techniques and Their use in Developing Site Specific Water Quality Criteria in Freshwater Ecosystems...DCMA-48](#)
- ☐ [Ocean Discharge Criteria \(A.K.A. "ODC",\) SEC 403 Clean Water Act](#)
- ☐ [Pathology of Marine and Estuarine Organisms Tools](#)
- ☐ [Quantitative Techniques for the Assessment of Lake Quality](#)
- ☐ [Reachfile I and III](#)
- ☐ [Recommended Procedure for the Examination Sea Water and Shellfish; 4th Edition](#)
- ☐ [Remote Sensing and Image Processing](#)
- ☐ [A Review of Methods for Assessing Nonpoint Source Contaminated Ground Water Discharge to Surface Water](#)
- ☐ [Sanitary Survey](#)
- ☐ [Sediment Classification Methods Compendium](#)
- ☐ [Sediment Toxicity Testing Methodology Guidance](#)
- ☐ [Selecting Remediation Techniques for Contaminated Sediment](#)
- ☐ [Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms, 2nd Edition](#)
- ☐ [Small Watershed Monitoring](#)
- ☐ [Standard Operating Procedures and Field Methods used for Conducting Ecological Risk Assessment Case Studies](#)
- ☐ [Statistical Methods for the Analysis of Lake Water Quality Trends](#)
- ☐ [Steward \(Support Technology for Environment, Water, and Agriculture Resource Decisions\)](#)
- ☐ [Survey Designs for Aquatic System](#)

- ☐ [Test Systems for Biotechnology Products](#)
- ☐ [Volunteer Lake Monitoring: A Methods Manual](#)
- ☐ [Volunteer Monitoring](#)
- ☐ [Volunteer Water Monitoring: A Guide for State Managers](#)
- ☐ [Waterbody System \(WBS\) Database](#)
- ☐ [Watershed Screening and Targeting Tool\(WSTT\)](#)
- ☐ [Wetlands Research Program](#)
- ☐ [Winhusle](#)

DATABASE TOOLS

- ☐ [Biological Criteria: A Guide to Technical Literature](#)
- ☐ [Clean Lakes Program Management System \(CLPMS\) Version 5.0](#)
- ☐ [Environmental Monitoring Methods Index, Version 1.0](#)
- ☐ [Grants Reporting and Tracking System \(GRTS\)](#)
- ☐ [Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples](#)
- ☐ [National Directory of Volunteer Environmental Monitoring Programs: 4th Edition](#)
- ☐ [Win#7](#)

ECONOMIC ANALYSIS TOOL

- ☐ [A Guide for Cost-Effectiveness and Cost-Benefit Analysis of State and Local Ground Water Protection Programs](#)

ENVIRONMENTAL GOAL SETTING TOOLS

- ☐ [Aquatic Life Risk Assessment Methodology](#)
- ☐ [Biological Criteria: National Program Guidance for Surface Waters](#)
- ☐ [Ecological Risk Assessment for Application of Sewage Sludge to Forest and Range Land](#)
- ☐ [EMAP's Ecological Indicators](#)
- ☐ [Environmental Indicators](#)
- ☐ [Guidelines for Deriving Site Specific Sediment Quality Criteria.](#)
- ☐ [Overenrichment Guidance](#)
- ☐ [Sediment Criteria for the Protection of Benthic Organisms Acenaphthene, Fluranthene, Phenanthrene, Dieldrin, Endrin \(Five Documents, One for Each Chemical\)](#)
- ☐ [Technical Assistance Document Delineate Areas of Groundwater/ Surface Water Interaction](#)
- ☐ [Technical Guidance Document: How to Develop and use Metal Translators](#)
- ☐ [Technical Guidance for Estimating Total Maximum Daily Loads \(TMDLS\): Integrating Steady-State and Episodic Point and Nonpoint Sources](#)
- ☐ [Technical Assistance Manual for Developing Total Maximum Daily Loads, Book II Streams and River, Part 1: Biochemical Oxygen Demand/Dissolved Oxygen and Nutrients/Eutrophication](#)
- ☐ [Technical Guidance Manual for Preforming Waste Load Allocations-Simplified Analytical Method for Determining NPDES Effluent Limitations for POTWS Discharging into Low-Flow Streams](#)
- ☐ [Technical Guidance Manuals for Performing Waste Load Allocations](#)
- ☐ [User's Guide to the Sediment Quality Criteria](#)
- ☐ [Water Effect Ratio \(Bioavailability\) Guidance](#)
- ☐ [Water Quality Standards for Wetlands](#)
- ☐ [Watershed Ecological Risk Assessment Guidance](#)
- ☐ [Wetlands Biocriteria Development](#)
- ☐ [Whole Effluent Toxicity \(WET\) Tests: Methods to Measure the Toxicity of Effluent and Receiving](#)

Waters to Freshwater and Marine Organisms

- ☐ Workshop Handbook on Multi-media Geographic Initiatives

FINANCIAL ASSISTANCE TOOLS

- ☐ Environmental Finance Program (EFP)
- ☐ Clean Water ACT TMDL Mini-Grants
- ☐ CWA Section 104(B)(3) Grant Funding Guidance
- ☐ Grants for Watershed Restoration Projects
- ☐ Local Financing for Wellhead Protection
- ☐ Section 319 Grants
- ☐ Watershed Protection: Catalog of Federal Program

MODELING TOOLS

- ☐ 1993 Exposure Models Library/IMES CD-ROM
- ☐ Comparative Toxicity Models
- ☐ Cornell Mixing Zone Expert System (CORMIX)
- ☐ Delineation of Wellhead Protection areas in Fractured Rocks
- ☐ Dynamic Toxics Waste Load Allocation Model (DYNTOX), User's Manual, September 1985
- ☐ Exams V.2.95
- ☐ Femwater/Lewaste
- ☐ Final Technical Guidance on supplementary Stream Design Conditions for Steady State Models, December 1988
- ☐ Food and Gill Exchange of Toxic Substance (FGETS)
- ☐ Guidelines for Delineation of Wellhead Protection Areas
- ☐ High Performance Ground Water Hydrology Modeling
- ☐ Hydrological Simulation Program-Fortran (HSPF)
- ☐ Indiana Wetnet
- ☐ Indicator
- ☐ MINTEQA2
- ☐ Model Integration in Grass (Geographical Resources Analysis Support System)
- ☐ Model of Acidification of Groundwater (MAGIC)
- ☐ Multimedia Exposure Assessment Model (MULTIMED)
- ☐ Patriot
- ☐ Pesticide Root Zone Model (PRZM-2)
- ☐ Pollutant Routing (P-Route)
- ☐ Saginaw Bay /Soil Erosion and Sediment Delivery Analysis
- ☐ Simulator for Water Resources in Rural Basin-Water Quality (Windows Front-End Version) EPA-823-C-94-002, February 1994
- ☐ SMPTOX3E
- ☐ Storm Water Management Model (SWMM)
- ☐ Synthesis of Methods to Predict Bioaccumulation of Sediment Pollutants
- ☐ VIRALT
- ☐ VIRALT Version 2.1
- ☐ Water Quality Analysis Simulation Program(WASP5)
- ☐ Watershed Modeling Systems Initiative (WMSI)
- ☐ Wellhead Protection Strategies for Confined-Aquifer Settings
- ☐ WEPP-Water Erosion Prediction Project
- ☐ WHPA Version 2.1

ORGANIZATIONAL/INSTITUTIONAL/PROGRAMMATIC TOOLS

- ☐ Delineation of Source Water Protection areas for Surface-Water Supplied Communities
- ☐ Model "BAD ACTOR" Legislation Developed by the National Association of Conservation Districts (NACD)
- ☐ NonPoint Source Management System (NPSMS) Software
- ☐ OKLA Feedyards Act
- ☐ Water Quality Standards Regulation
- ☐ Watershed Protection: A Project Focus.
- ☐ Wetlands and 401 Certification
- ☐ Wetlands Mitigation Banking

OUTREACH/EDUCATION TOOLS

- ☐ Case Studies in Wellhead Protection : Ten Examples of Innovative Wellhead Protection Management Programs
- ☐ Citizen's Guide to Ground Water Protection
- ☐ Clean Water Online
- ☐ Ecoscope Watershed Model and Water Quality Testing Knits
- ☐ Educational Brochures and Fact Cards
- ☐ Environmental Hypermedia and Water Quality Models CD-ROM
- ☐ Federal Agency Ground Water Technical Assistance Directory
- ☐ Ground Water Information System Roadmap
- ☐ GWPC-Home Page
- ☐ Introduction to Water Quality Standards
- ☐ National Extension Water Quality Database
- ☐ Nonpoint Source News-Notes
- ☐ Office of Wetlands, Oceans and Watershed 1995 Publication List
- ☐ Private Lands Initiative
- ☐ Proceedings: Watersheds'93: A National Conference on Watershed Management, March 21-24, 1993, Alexandria, VA
- ☐ Protecting Local Ground Water Supplies through Wellhead
- ☐ Publications
- ☐ Region II Market & Outreach Report on Community Placed Based Watersheds
- ☐ Storm Drain Stenciling Kit
- ☐ Troubled Waters
- ☐ UIC Class V Wells
- ☐ Underground Injection Control Watershed Tools
- ☐ Water Quality Criteria and Standards Programs Videotapes
- ☐ Wetlands Information Hotline
- ☐ Why do Wellhead Protection

POLICY AND PLANNING TOOLS

- ☐ California Ocean Plan; Water Quality Control Plan for Ocean Waters of California
- ☐ Developing a State Wellhead Protection Program: A User's Guide of Assist State Agencies Under the Safe Drinking Water Act
- ☐ Eastern Storm Water Model
- ☐ Ecological Risk Assessment Issue Papers

- ☐ Economic Guidance for Water Quality Standards: Workbook
- ☐ EPA Strategic Plan for Ground Water Ecology
- ☐ EPA Contaminated Sediment Management Strategy-Draft
- ☐ EPA'S Review and Approval Procedure for State Submitted TMDLS/WLAS, March 1986
- ☐ Framework for Ecological Risk Assessment Report
- ☐ Generic Quality Assurance Projection Plan Guidance for Programs using Community Level Biological Assessment in Wadable Stream and Rivers
- ☐ Guidance for Assessing chemical Contamination Data for use in Fish Advisories. Volume II Risk Assessment and Fish Consumption Limits
- ☐ Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Costal Water
- ☐ Interim Guidance on the Determination and use of Water-Effect Ratios for Metals
- ☐ Managing Contaminated Sediments
- ☐ Monitoring Guidance for the National Estuary Program
- ☐ NPDES Watersheds Management Technique
- ☐ A Phase I Inventory of current EPA Efforts to Protect Ecosystems
- ☐ Project Manager's Guide to Request and Evaluating Chemical Analyses
- ☐ Section 404 Permit Review/Section 404(B) Guidelines
- ☐ State Wetlands Conservation Plans (SWCP)
- ☐ Tribal Program Guidance
- ☐ Volunteer Estuary Monitoring: A Methods Manual
- ☐ Watershed Protection: A Statewide Approach
- ☐ Watershed Texas
- ☐ Wellhead Protection Programs:Tools for Local Governments

REFERENCE REPORTS AND STUDIES

- ☐ Agriculture and the Environment
- ☐ Best Management Practices for Wheat
- ☐ Case Studies in the use of Rapid Bioassessment Protocols for the Assessment of Biological Effects of Combined Sewer Overflows
- ☐ A Commitment to Watershed Protection: A Review of the Clean of The Clean Lakes Program
- ☐ Compendium of Ecological Risk Assessment Tools
- ☐ Consumption Surveys for Fish and Shellfish: A Review and Analysis of Survey Methods
- ☐ Development documents for Effluent Limitations Guidelines and Standards
- ☐ Drinking Water Sampling Waivers
- ☐ Economic Analysis Documents for the Effluent Limitations Guidelines and Standards
- ☐ EPA Headquarters Ecosystem Tool Inventory
- ☐ Fish and Fisheries Management in Lakes and Reservoirs: Technical Supplement to the Lake and Reservoir Restoration Guidance Manual
- ☐ Ground Water Resource Assessment
- ☐ Guidance for Water Quality-Based Decisions: The TMDL Process
- ☐ A Guide to Selected National Environmental Statistics in the U.S. Government
- ☐ The Lake and Reservoir Restoration Guidance Manual(Second Edition)
- ☐ Methods for Assessing Nonpoint Source Contaminated Ground Water Discharge to Surface Waters
- ☐ Modeling Phosphorus Loading and Lake Response Under Uncertainty: A manual and Compilation of Export Coefficients
- ☐ Monitoring Lake and Reservoir Restoration: Technical Supplement to the Lake and Restoration Guidance Manual
- ☐ National Geography Awareness Week, Nov. 15-21, 1992 Teachers Packet
- ☐ National Study of Chemical Residues in Fish. Volume 1 and II U.S. EPA 823-R-92-008 A and B.

September 1992

- ☐ Nonpoint Source Water Quality Contacts 1994-95 Directory
- ☐ ORD'S Bulletin Board System (BBS)
- ☐ Poultry Water Quality Handbook
- ☐ Protecting the Nation's Wetlands, Oceans and Watersheds: An Overview of Programs a Phase I Inventory of Current EPA Efforts to Protect and Activities
- ☐ Rates, Constraints, and Kinetics Formulations in Surface Water Quality Modeling (Second Edition), U.S. EPA 600/3-85/040, June 1985
- ☐ Regional Assessment of Aquifer Vulnerability and Sensitivity in the Conterminous United States
- ☐ Section 319 Success Stories
- ☐ Sediment Classification Methods Compendium
- ☐ Seventeen Peer-Reviewed Ecological Risk Case Studies
- ☐ STORET/BIOS/ODES/WQAS Tools Inventory
- ☐ Toward a Watershed Approach: Annual Report 1992
- ☐ Washington Forest Practices Board Manual, "Standard Methodology for Conducting Watershed Analysis"
- ☐ The Watershed Protection Approach-1993/94 Activity Report
- ☐ The Watershed Protection Approach: An Overview
- ☐ Wildlife Exposures Factors Handbook
- ☐ Xeriscape Landscaping: Preventing Pollution and using Resources Wisely

RESTORATION/PREVENTION TOOLS

- ☐ Migratory Bird Conservation Commission/North American Wetlands Conservation Act
- ☐ Synoptic Model

TRAINING TOOLS

- ☐ Catalogue of Watershed Training Opportunities
- ☐ Ecological Restoration Conference
- ☐ Evaluation of Dredge Material Proposed for Discharge in Waters of the US-Testing Manual (Draft): Inland Testing Manual
- ☐ Guide for Conducting Contamination Source Inventories for Public Drinking Water Supplies
- ☐ Guide to Ground Water Supply Contingency Planning for Local and State Governments
- ☐ International Conference on Ground Water Ecology
- ☐ Lake Restoration: Proceedings of a National Conference
- ☐ Land Stewardship Watershed Planning Process
- ☐ Managing Ground Water Contamination Sources in Wellhead Protection Areas: A Priority Setting Approach
- ☐ The Statewide Watershed Management Course
- ☐ Streambank Restoration Workshops
- ☐ Training in TMDL Development and Applicable Models
- ☐ Water Quality Standards Academy/Regional Water Quality Standards Workshops
- ☐ Watershed Protection Techniques

Appendix A



Office of Water

OW-GENERAL@epamail.epa.gov

URL: <http://www.epa.gov/OWOW/watershed/tools/index.html>